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### 1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 2 The basic object system: supporting a spectrum from prototypes to hardened code

Allen Dutoit, Sean Levy, Douglas Cunningham, Robert Patrick

October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 31 Issue 10

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, index terms

BOS is a prototype-based, object-oriented toolkit aimed at better supporting evolutionary software development. BOS attempts to support a spectrum of activities in one environment---ranging from rapid prototyping to code hardening. Features enabling rapid prototyping include a prototype-based object model, an interpreted language, run-time argument constraints, position and keyword arguments, and a user interface toolkit. BOS also provides features for code hardening such as multi-methods, multi ...

### 3 Streamlining the project cycle with object-oriented requirements

Richard Jordan, Ruth Smilan, Alex Wilkinson

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications**, Volume 29 Issue 10

Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, citations, index terms

We have succeeded in streamlining the product development cycle by incorporating object-oriented technology into the requirements definition phase. We have developed a general format, supporting tools and a methodology for describing requirements in an object-



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- 1** [Integrating object-oriented programming and protected objects in Ada 95](#)

A. J. Wellings, B. Johnson, B. Sanden, J. Kienzle, T. Wolf, S. Michell

May 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 22 Issue 3

Full text available: [pdf\(245.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Integrating concurrent and object-oriented programming has been an active research topic since the late 1980's. There is now a plethora of methods for achieving this integration. The majority of approaches have taken a sequential object-oriented language and made it concurrent. A few approaches have taken a concurrent language and made it object-oriented. The most important of this latter class is the Ada 95 language, which is an extension to the object-based concurrent programming language ...

**Keywords:** Ada 95, concurrency, concurrent object-oriented programming, inheritance anomaly

- 2** [ROMAN-9X: a technique for representing object models in Ada 9X notation](#)

Gary J. Cernosek

October 1993 **Proceedings of the conference on TRI-Ada '93**

Full text available: [pdf\(1.79 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 3** [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

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